## Claims

- 1. A mobile communication terminal board comprising:
- a baseband chip for processing audio data;

an ultrasonic drive chip for receiving and modulating a signal output from the baseband chip to an ultrasonic band signal; and

an ultrasonic speaker for outputting the ultrasonic signal output from the ultrasonic drive chip to an outside.

- 2. The mobile communication terminal board as claimed in claim 1, wherein the ultrasonic drive chip and the ultrasonic speaker are implemented and installed as an integrated module.
- 3. The mobile communication terminal board as claimed in claim 1, wherein the ultrasonic speaker is implemented by a plurality of thin film type ultrasonic transducers.
- 4. The mobile communication terminal board as claimed in claim 1, wherein the ultrasonic speaker is an ultrasonic transducer using a PVDF (polyvinylidene difluoride) film type piezoelectric element.

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- 5. The mobile communication terminal board as claimed in claim 1, wherein the ultrasonic speaker is implemented through an MEMS (Micro Electro Mechanical System) technique.
- 6. The mobile communication terminal board as claimed in claim 5, wherein the ultrasonic speaker and the ultrasonic drive chip are implemented as one semiconductor chip.
- 7. The mobile communication terminal board as claimed in claim 1, wherein the ultrasonic drive chip comprises:
  - a preprocessing unit for receiving audio data output from the baseband chip and performing a band compensation and distortion compensation of the

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received audio data;

a carrier generation unit for generating a carrier of an ultrasonic band; a modulation unit for modulating an output signal of the preprocessing unit to the ultrasonic band signal using the carrier; and

an ultrasonic amplifying unit for amplifying an output signal of the modulation unit.

- 8. A mobile communication terminal board comprising:
- an ultrasonic speaker for outputting a signal modulated to an ultrasonic band; and
  - a baseband chip, integratedly provided with an ultrasonic drive chip for driving the ultrasonic speaker, for processing audio data.
  - 9. The mobile communication terminal board as claimed in claim 8, wherein the ultrasonic speaker is implemented by a plurality of thin film type ultrasonic transducers.
  - 10. The mobile communication terminal board as claimed in claim 8, wherein the ultrasonic speaker is an ultrasonic transducer using a PVDF (polyvinylidene difluoride) film type piezoelectric element.
  - 11. The mobile communication terminal board as claimed in claim 8, wherein the ultrasonic speaker is implemented through an MEMS (Micro Electro Mechanical System) technique.
  - 12. The mobile communication terminal board as claimed in claim 11, wherein the ultrasonic speaker and the ultrasonic drive chip are implemented as one semiconductor chip.
  - 13. The mobile communication terminal board as claimed in claim 8, wherein the ultrasonic drive chip comprises:
    - a preprocessing unit for receiving audio data output from the baseband

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chip and performing a band compensation and distortion compensation of the received audio data;

a carrier generation unit for generating a carrier of an ultrasonic band;
a modulation unit for modulating an output signal of the preprocessing
unit to the ultrasonic band signal using the carrier; and

an ultrasonic amplifying unit for amplifying an output signal of the modulation unit.

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